

Г	OSD_MTID_GATEWAY	
Key	Value	V a lid
G W .1	HOST2.1860	1
G W .2	HOST3.1862	1
G W .3	HOST4.1863	1
G W .4	HOST2.1864	1
G W .5	HOST2.1880	1

FIG. 2A

DS	D_M TID_M ETA DA TA	
Key	V a lu e	Valid
MDS.1	HOST9:1872	1
MDS.1.0	HOST11:1281	1
MDS.1.1	HOST9:1872	1
MDS.2	HOST10:1884	1
MDS.3	HOST12:1283	1

FIG. 2B

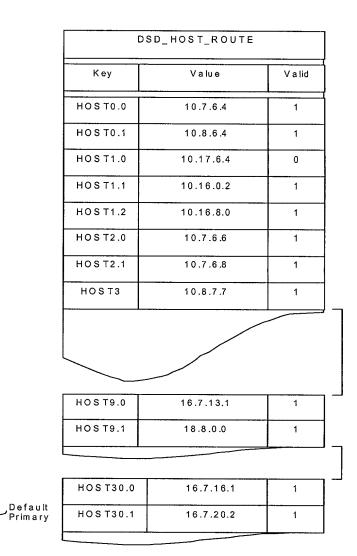


FIG. 2D

Key	Value	Valid
BSS.1	HOST30.1008	1
BSS.2	HOST31.1010	1
BSS.3	HOST32.1012	1
BSS.4	HOST42.1481	1

FIG. 2C

Values not in key table apply algorithm e.g m od 3

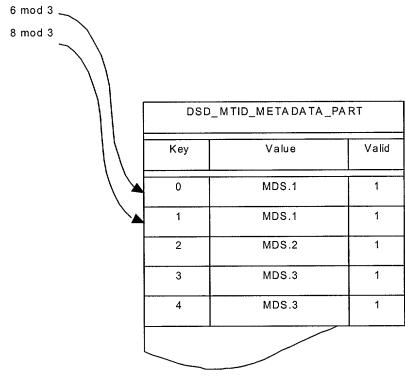


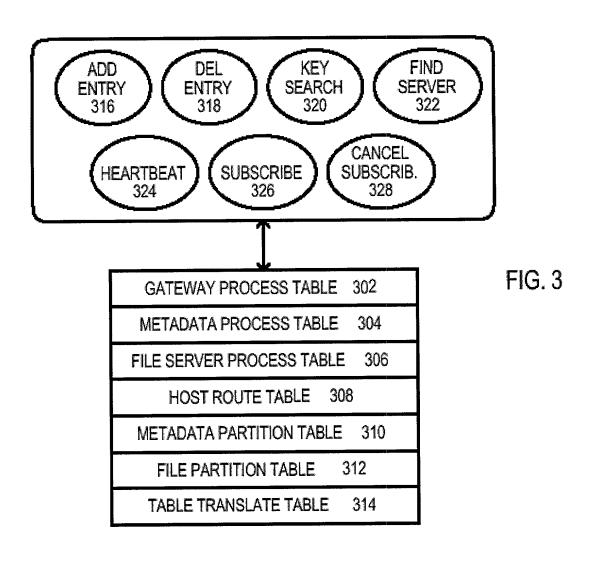
FIG. 2G

DSD_	MTID_METADATA_	PART
Key	Value	Valid
0	MDS.1	1
1	MDS.1	1
2	MDS.2	1
3	MDS.3	1
4	MDS.3	1

FIG. 2E

D:	SD_MTID_BITFILE_PAR	Γ
Key	Value	Valid
0	BSS.4	1
1	BSS.5	1
2	BSS.16	1
3	BSS.3	1
4	BSS.1	1
5	BSS.6	1

FIG. 2F



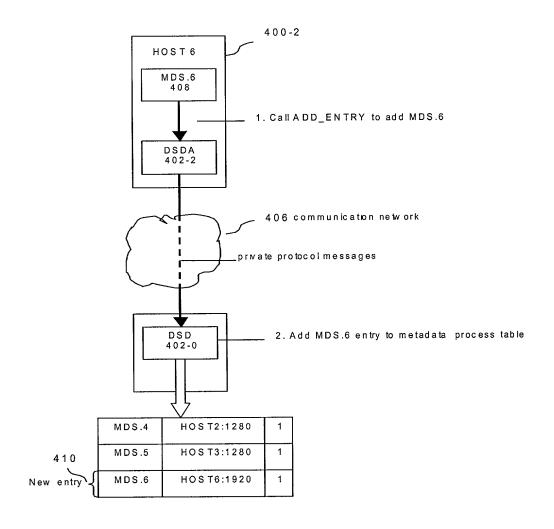


FIG . 4 A

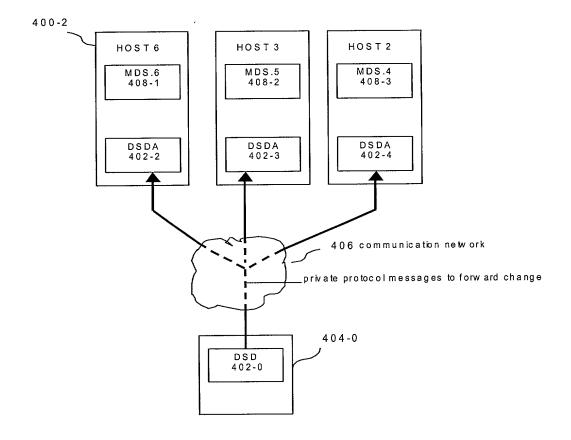
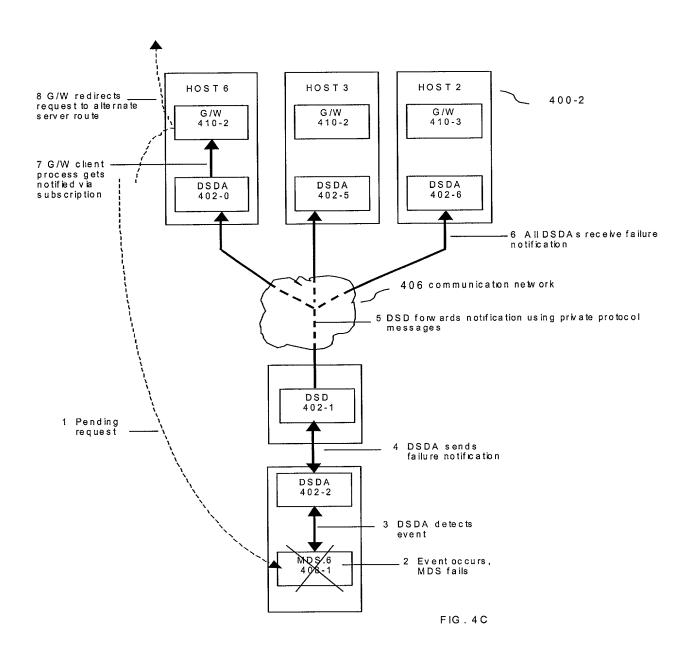


FIG . 4 B

```
Function Key_Search {
  input (Table_Name, Prefix)
   For all Entries in Table_Name,
       If Entry.Key starts with Prefix
       Add Entry to Entry_List
   output (Entry_List)
    FIG. 5A
Function Find_Server {
  Call Key Search input (Server Table, Prefix), output (Server_Route)
   Extract Host Name from Server Route
   Call Key Search input (Host_Route_Table, Host_Name), output (Host_Route)
   Replace Host_Name in Server_Route with Host_Route to construct Complete_Server_Route
   Output (Complete_Server_Route)
    FIG. 5B
Function Heartbeat {
   input (Entry.Key, Time_Max)
       Entry. Valid = 1, Time = 0
       If Heartbeat received while Time < Time_Max
           Time = 0
       If Time > Time_Max
           Entry. Valid = 0
  }
    FIG. 5C
Function Subscribe {
   input (Subscribe)
       Record subscription (Table, Key_Prefix, Event_Handler, Context,...)
          in Subscription_List
  }
    FIG. 5D
```

```
Function Pushed_Entries {
    input (Pushed_Entries)
    For each Subscribe in Subscription_List
        For each Entry in Pushed_Entries
        If Entry.Table ==Subscribe.Table
        If Entry.key starts with Subscribe.Key_Prefix
        Call Subscribe_Event_Handler
}
```

FIG. 5E



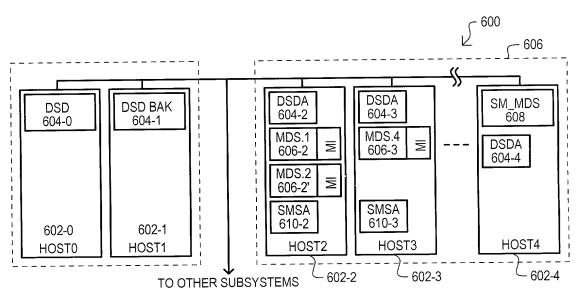


FIG. 6A

DSD_MTID_SE	RVICE_MA	STER
KEY	VALUE	VALID
SMSA_HOST2	10.6.0.2	1
SMSA_HOST2 SMSA_HOST3	10.6.0.2	1

		CD
-	רו	OD

DSD_MTID_M.	ANAGEMEI	NT_IF	
KEY	VALUE	VALID	
MI_MDS.1.0	10.6.0.2	1	
MI_MDS.1.0 MI_MDS.1.1	10.6.0.2	1	

FIG. 6C

